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EXAMINER

WANG, RONGFA PHILIP

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2191

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/842,948	Applicant(s) PETRY ET AL.	
	Examiner PHILIP WANG	Art Unit 2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-8,10-30,32-34,36-39,41-44,51-53,55-63 and 69 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-8,10-30,32-34,36-39,41-44,51-53,55-63 and 69 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to amendment filed on 5/27/2008.
2. The Applicant has amended the specification.
3. Per Applicant's request, claims 1, 19, 22, 26, 39, 51-53, 55-57, 60-63, 69 have been amended.
4. Claims 1, 3-8, 10-30, 32-34, 36-39, 41-44, 51-53, 55-63, and 69 remain pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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1. Claims 1, 3, 5-8, 11-16, 19-30, 32-33, 36-39, 41-44, 51-53, 55-63, and 69 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 6,931,633 B1 to Vazquez et al.

Per claims 1, 19, 22, 26, 39, 51, and 52:

A method comprising:

-a user selecting, at a first computer, at least one vision tool, said vision tool being remotely located from said first computer;

Vazquez disclosed:

Col. 8:8-25 & FIG. 3, user creates image processing system, user to load and display an image, image processing functions (vision tool) are performed on an image, user to select and apply functions

Col. 12:50 & FIG. 5, host computer 102, connects to one or more instruments, CPU, display screen, memory

Col. 15: 1-31; Col. 7 23-35, The memory medium may be comprised in the computer 102...or may be located

on a second computer which is coupled to the computer 102 through a network, LAN, WAN, Internet...to provide the program instructions through the network... (remotely located)

-in response to the selection by the user of the at least one vision tool, sending, via a communications network, image data (Col. 3: 7, user may specify One or more images on which to run the algorithm), an indication of the vision tool that was selected, and at least one vision tool parameter corresponding to said vision tool, from the first computer to a remotely located second computer that includes the vision tool;

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Vazquez disclosed (col. 7 23-35) that the system may include two remotely connected computers, thus 'sending via communications network'. Col. 3: 7, "user may specify one or more images on which to run the algorithm (vision tool)" Col. 9:31-33, "user may change parameters associated with various image processing functions in the algorithm" Col. 10: 3-14, "image processing categories...for each function in the algorithm related to morphology operations..., manipulating color information...related to filtering functions...histogram functions...pattern matching functions

(vision tools) Col. 10:19-21, "user may then request the image processing algorithm to be included in a standalone executable program" (indication of the vision tool that was selected) Col. 11 : The user interface of the prototyping environment may enable the user to load or select an image and easily select image processing functions to apply to the image." Col. 12: 65-66, "specified parameters may be associated with the image processing function." (vision tool parameter corresponding to said vision tool)

-validating said image data, said vision tool, and Said at least one vision tool parameter, at said remotely located second computer;

Vazquez disclosed (col. 5: 6) "an image prototyping environment application operable to develop image processing algorithms" Col. 5:29-31, "system and method for evaluating performance of an image processing algorithm (validating)" User validates image data, vision tool and parameters in a prototyping environment, records functions in a script (col. 8: 29-30), which may be converted to a standalone executable program (col. 10: 15-21).

-processing said image data at said remotely located second computer using the vision tool to produce a result;

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Vazquez disclosed (col. 8: 20-22) "image processing functions are performed on an image (using vision tool to produce a result), in response to user input accepted via the user interface displayed."

-sending the result to a designated location.

Vazquez disclosed (col. 8: 26-28) "As the image processing functions are performed on the image, the user interface may update the image or display a separate resulting image." (results are sent to designated location, the user interface)

Per claims 3, 14, 15, 21,23, 25, and 53:

-Image data sent via communications network acquiring image / retrieving image

Vazquez disclosed a first and second different computer (col. 23-26) networked (image data sent via communications network).

Vazquez disclosed (col. 8: 16-18), The user interface preferably enables a user to load and display an image, e.g., an image from a file or acquired from hardware device. Col. 10: 59-60, "load and manipulate any of various types of images" (acquiring / retrieving image)

Per claims 5, 6, 28, 29, 30, 41, 42:

-Communications network / WAN / Internet

Vazquez disclosed: Col. 7: 23-27, a first computer, second different computer, network...the second computer provides the program instructions to the first computer for execution.

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Per claims 7, 8, 37, 38, 43, and 44:

-designated location to receive said analyzed result is said first computer

Vazquez disclosed:

See FIGs. 5-11, output image to GUI screen. Col. 12: 58-62, "for each type of image processing function supported, the prototyping environment may be operable to display intermediate windows or screens that the user interacts with."

Per claims 11, 12, 16, 56, 57, 60 and 61:

-acquiring said image data at said first computer / at said remotely located second computer

Vazquez disclosed (col. 10: 63), The images may be obtained from any of various sources.

Vazquez disclosed (col. 8:16-18), The user interface preferably enables a user to load and display an image, e.g., an image from a file or acquired from hardware device.

See claim 1 regarding first computer & remotely located second computer.

Per claims 13, 58, and 59:

-acquiring includes retrieving said image data from an image acquirer using an acquisition command / from an image holder /from an image data location.

Vazquez disclosed (col. 8:16-18), The user interface preferably enables a user to load and display an image, e.g., an image from a file (image holder / image data location) or acquired from hardware device (acquisition command).

Col. 5: 45, images acquired from the video device 132. Col. 6: 48, image acquisition board 134(acquisition command).

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Per claims 20 and 24:

-configured to send said image data to said remotely located second computer to be used by said vision tool.

Vazquez:

Col. 8:8-25 & FIG. 3, image prototyping environment and user interface enables a user to load and display an image..., from a file or acquired from hardware device...image processing functions are performed on an image, in response to user input accepted via the user interface...user to select and apply these functions...As the image processing functions are performed on the image, the user interface may update the image or display a separate resulting image.

Col. 10: 64, The images may be obtained from any of various sources.

See claim 1 regarding networked computers. Vision tools / image processing functions are used to process image data.

Per claims 27, 32, 33, 59, and 60:

-retrieves said image data from an image acquirer

Vazquez:

Col. 5: 57-58, image acquisition card 134, coupled to computer

Col. 7: 23-35, an arrangement of networked computers

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Col. 8:17-19, The user interface preferably enables a user to load (retrieve) and display an image, e.g. an image from a file or acquired from hardware device (retrieve from image acquirer).

Col. 15:16-18, "If the image source is a hardware device, the program may include code for initializing the hardware device, acquiring the image from the device, etc."

Per claims 55, 62, and 63:

-entering at least one vision tool parameter at said first computer.

Vazquez disclosed (col. 13: 4-18), entering vision tool parameters.

Col. 15: 25-67, input parameters

Per claim 69:

An apparatus comprising:

A computer configured to communicate with a remotely located second computer via a communications link, the computer including:

Vazquez disclosed linked computers (first computer, second computer) at col. 7: 23-35.

-a receiving portion configured to receive image data, at least one vision tool parameter, and an indication of a selection of at least one vision tool from said remotely located second computer;

Vazquez disclosed (col. 8: 7-43), an image prototyping environment, a user interface, enables a user to load and display an image, select and apply image processing functions (selection of vision tool). Col. 9: 32, user may change parameters associated with various image processing functions

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-an analyzing portion configured to analyze said image data and said at least one vision tool parameter using said at least one selected vision tool to obtain an analyzed result;

Vazquez disclosed analyzing at col. 8: 41. Col. 9: 39-40, "may suggest changes to parameters in various image processing functions (analyzing)"

-transmitting portion configured to send said analyzed result from said analyzing portion to a designated location via said communications link.

Vazquez disclosed (col. 9: 50-52), "enable the user to easily execute the changed algorithm to see the results (view on GUI - designated location) See FIG 4 & related text at col. 11 : 59-62, processing window (designated location) may display resulting image. Vazquez disclosed analyzing at col. 8: 41. Col. 9: 39-40, "may suggest changes to parameters in various image processing functions (analyzing)"

Vazquez disclosed (col. 5:34 - col. 8: 7) a computer system storing an image processing

- prototyping environment, related instruments such as a video device 132 or an image acquisition card 134, host bus 162, and connections (communications link for transmitting / sending). Vazquez disclosed that (col. 7: 23-26) a first and a second computer may be networked.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject

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matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 4, 10, 17, 18, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,931,633 B1 to Vazquez et al, in view of USPN 6,915,273 B1 to Parulski et al.

Per claims 4 and 34:

-client account information is sent along with at least one vision tool parameter that is sent from said first computer via said communications network to said remotely located second computer.

-validator to verify account information from said first computer

Vazquez disclosed networked computers sending vision tool parameters (see limitations addressed above). Vazquez failed to disclose "client account information and validator to verify account information from said first computer"

However, Parulski disclosed customized printing services over a network, providing photo products including images. Parulski disclosed

Col. 5: 33-44), "When a photo product 66 is purchased, the electronic database 44 communicates

with a billing system 46 to verify that the payment identifier (e.g., credit card or debit card number) provided by the customer is valid, and to debit the account for the purchase. "

Parulski disclosed (col. 1:51-53) providing "a plurality of photo product options that can be selected by a user via a digital communications network" Col. 1: 55-60, "the user providing a first group of digital images and selecting at least one photo product from the plurality of digital

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printing service options and providing a payment identifier specifying a payment account to be debited to pay for the selected photo product" Col. 1 : 62, "storing the service account data" The user selects 'options' (parameters) (col. 7:20)

It would have been obvious, to one of ordinary skill in the art, at the time of the invention to modify Vazquez, using the teachings of Parulski, because one would be motivated to provide for billing for services rendered in an image processing system.

Per claims 10, 17, 18:

-vision tool parameter is entered at said first computer

Vazquez disclosed (col. 13: 4-18), "experimenting with various image processing functions and settings (parameters)..." Col. 15: 25-26, "input specifying which image processing function parameters may be interactively specified"

-entered manually by a user Vazquez disclosed (col. 9:32) "user may change parameters"

-entered using an application program Vazquez disclosed (col. 9: 58-60), "prototyping environment may automatically make changes to the algorithm and inform the user of the changes"

Response to Arguments

In the remark,

Applicant argues:

1) The recited prior art does not teach the limitation of "sending , via a communication network, image data, an indication of the vision tool that was selected, and one vision parameter corresponding to the vision tool." And there is not disclosure of memory medium.

Examiner's response:

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1) Regarding the Applicant's questions of "two remote computers", it is better described as two remotely connected computers. Vazquez, c7: 23-35, "...memory medium may be located in a first computer...or may be located in a second computer....connects to the first computer over a network..." This clearly shows support of the limitation.

Further, Col. 10:19-21, "user may then request the image processing algorithm to be included in a standalone executable program" (indication of the vision tool that was selected) Col. 11 :

The user interface of the prototyping environment may enable the user to load or select an image and easily select image processing functions to apply to the image." Col. 12: 65-66, "specified parameters may be associated with the image processing function." (vision tool parameter corresponding to said vision tool) appears to show support of the argued limitation.

Conclusion

THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Wang whose telephone number is 571-272-5934. The examiner can normally be reached on Mon - Fri 8:00 - 4:00PM. Any inquiry of general nature or relating to the status of this application should be directed to the TC2100 Group receptionist: 571-272-2100.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Wei Y Zhen/
Supervisory Patent Examiner, Art Unit 2191